

Title (en)

Buffer system for controlled and synchronised presentation of MPEG-2 data services

Title (de)

Puffersystem für eine kontrollierte und synchronisierte Darstellung von MPEG-2 Datendiensten

Title (fr)

Système de mémoire tampon pour une présentation contrôlée et synchronisée des services de données MPEG-2

Publication

**EP 0981249 A3 20040121 (EN)**

Application

**EP 99115908 A 19990812**

Priority

- US 9678398 P 19980817
- US 35215699 A 19990712

Abstract (en)

[origin: EP0981249A2] A data elementary buffer (58) with underflow and overflow operational constraints is incorporated into a digital television receiver to regulate the flow of data related to an ancillary data service to be presented in synchronization with a video or audio program element. The data elementary buffer (58) ensures that data is received in time for decoding and presentation in synchronization with the video or audio element. The data elementary buffer (58) also limits the amount of data that the receiver may be required to cache. The minimum size of the data elementary buffer (58) is three times the size of a nominal data access unit or three times the quantity of data that the receiver can receive at the maximum rate in the period that a video element is displayed by the receiver. <IMAGE>

IPC 1-7

**H04N 7/24**

IPC 8 full level

**H04N 7/26** (2006.01); **H04N 7/08** (2006.01); **H04N 7/081** (2006.01); **H04N 7/173** (2011.01); **H04N 19/00** (2014.01); **H04N 21/234** (2011.01); **H04N 21/434** (2011.01); **H04N 21/438** (2011.01); **H04N 21/44** (2011.01)

CPC (source: EP US)

**H04N 21/23406** (2013.01 - EP US); **H04N 21/44004** (2013.01 - EP US)

Citation (search report)

- [X] EP 0843482 A2 19980520 - SONY CORP [JP]
- [X] EP 0784409 A2 19970716 - SONY CORP [JP]
- [PX] EP 0932308 A2 19990728 - SONY CORP [JP]
- [A] EP 0723345 A2 19960724 - AT & T CORP [US]
- [PX] CRINON R J: "ATSC data broadcast services: protocols, application signaling, buffer models, profiles and levels", CONSUMER ELECTRONICS, 1999. ICCE. INTERNATIONAL CONFERENCE ON LOS ANGELES, CA, USA 22-24 JUNE 1999, PISCATAWAY, NJ, USA, IEEE, US, 22 June 1999 (1999-06-22), pages 4 - 5, XP010346529, ISBN: 0-7803-5123-1
- [A] ATSC: "Guide to the use of the ATSC Television Standard passage", GUIDE TO THE USE OF THE ATSC DIGITAL TELEVISION STANDARD, XX, XX, 4 October 1995 (1995-10-04), pages 1 - 148, XP002255337

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0981249 A2 20000223**; **EP 0981249 A3 20040121**; **EP 0981249 B1 20090114**; DE 69940288 D1 20090305; JP 2000083226 A 20000321; JP 4437341 B2 20100324; US 2003106069 A1 20030605; US 6573942 B1 20030603; US 7075584 B2 20060711

DOCDB simple family (application)

**EP 99115908 A 19990812**; DE 69940288 T 19990812; JP 22677599 A 19990810; US 34178203 A 20030113; US 35215699 A 19990712